

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

[CTGCAGTCTATTGGATGAAGAGTGTACATATTCATATAATTCTTAAAGTAGGCAGAAAT
TAAAGGGGATGGAAATATATACTTGTACTGCCTTAGATAGTCACCAGGATGTTGTTACAG
TCTTCGTTTACTGCTTCTGAAGCCTATACTGATAGAATTAATAAAATACTGAGAGAGAGA
GAGAGGGACAGAGAGAGAGAGGGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA
GAGAGAGAGAGAGAAGAGAAGAAAACAAGGTSAGCCATCTGCTTAACTTATGTCCACAT
TCTCTCAAGAGCATTGTCTTATTTGTAGAATTATCTATATTGTTAAGAATCATCTCCATT
GTTAAGATTTTGTGGGCTGGAGATCCAGCTCTGTTGATAAAGTGCTTGCCTAACATGCAT
GAAGTCTTAGGTTCTATTCCCAAGGCTACATAAAACCTTGTGTTGTGATGAATGCCTGTA
ATCCCAGTACGCAGCAAGGAGAGACAAGGAGGATCAGAAGCTTAAGGACATCATTTTGT
CATAGTGAGTTTGAGGAAAGCTGAGGTTACATGGAACCTCTCTCTCTCTCAAAAACAAAAC
AAAACAAAACAAAACCTTCTACTAATATTCTGGATTCTGTTTGATTTTATAGGATCTCAAG
AGCATGCTGACGTCATTTATGTGTTTCCATCAGATACAGACAGAGATCATAAACATTTAA
CTCATTGATTATATGTTGAGAGTTGTCCCTCAAGAACCAATGGCCAAACATCCACTGAGG
ATACACGGAAGCTTAGAAAATCTCTAATTTAAATCCTGACATAATGGAAGTGCTCACAAA
CCAGCC]AACACCTAATAAAACCAGTGGCAAGAGCAACAACCTCGGCATTTTTCTACTTTG
AATCCTGCCAACCCCTTTTCTAGCCATACTCTTGCTACTCATAGCATATACTGTGATCC
TAATCATGGGCATTTTTGGAAACCTCTCTCTTATCATCATCATCTTTAAGAAACAGAGAG
AAGCTCAAAATGTTACCAACATACCTGATT[GCCAACCTGTCCCTCTCTGACATCTTGGTG
TGTGTCATGTGCATCCCTTTTACGGTCATCTACACTCTGATGGACCACTGGGTATTTGGG
AACACTATGTGTAACTCACTTCCTACGTGCAAAGTGCTCAGTTTCTGTGTCCATATTC
TCCCTTGTGTTGATTGCTATTGAACGATATCAGCTGATTGTGAACCCCGTGGCTGGAAA
CCCAGAGTAGCTCATGCCTATTGGGGGATCATCTTGATTTGGCTCATTTCTCTGACATTG
TCTATTCCCTTATTCCCTGTCTTACCACCTACCAATGAGCCCTTTCATAATCTCTCTCTC
CTACTGACATCTACACCCACCAGGTAGCTTGTGTGGAGATTGGCCTTCTAAACTGAAC
CAACTCCTCTTTTCTACATCATTATTTATGCTCCAGTATTTTGTCCCTCTGGGTTTCATT
CTTATCTGCTACCTGAAGATCGTTCTCTGCCTCCGAAAAAGAACTAGGCAGGTGGACAGG
AGAAAGGAAAAATAAGAGCCGTCTCAATGAGAACAAAGAGGGTAAATGTGATGTTGATTTC
ATCGTAGTGACTTTTGGAGCCTGCTGGTTGCCCTTGAACATTTTCAATGTCATCTTCGAC
TGGTATCATGAGATGCTGATGAGCTGCCACCACGACCTGGTATTTGTAGTTTGCCACTTG
ATTGCTATGGTTTCTACTTGCATAAATCCTCTCTTTTATGGATTCTCAACAAAACTTC
CAGAAG]GATCTAATGATGCTTATTCACCACTGTTGGTGTGGTGAACCTCAGGAAAGTTA
TGAAAATATTGCCATGTCTACTATGCACACAGATGAATCCAAGGGATCATTTAAACCTGGC
TCACATACCAACAGGCATATAGAACTGGTAAGCAAAAATCAAAGCCCTTCTGTTATGAAA
GAAAGAGAAGAAATAGTATGGAATAGGGCAAGGTGCAGAGGAAGCCAGACTTAAACACAT
AATATCTTTGGGCCCAGTTTGTCTTAAGTTAAGCATGTCTACTCCATTGAGCCATAGAA
CACACAGAGATTTATCCCTACCCTTTCTTTTTCCTTTTGAAGAATAATAACTTAAACA
ACCTAGACATCATTACTGAGGAAGAGAACAAAAATGAGAGAGCATACAAGGACAGCAGAG
ATGCTCTGGGGTACAAAATTCACGTTATTCGCTGGAATAGCTAGAAAGTTATTAGTTGTGC
TGCAG

FIGURE 2A

Gene Sequence Structure

846 bp

Sequence Deleted

1047 bp

Size of CDS: 2281 bp

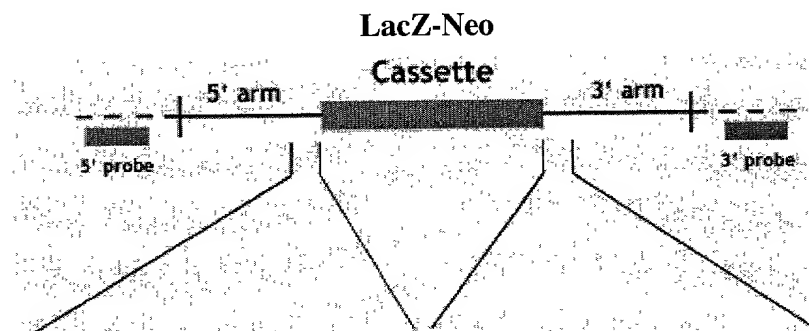
Targeting Vector* (genomic sequence)

Construct Number: 2762

Arm Length:

5': 5 kb

3': 0.5 kb



5' >TTTAGGATCTCAAGAGCATGC
TGACGTCATTTATGTGTTCCATC
AGATACTGACAGAGATCATAAACA
TTTAACTCATTGATTATATGTTGA
GAGTTGTCCCCTCAAGAACCAATGG
CCAAACATCCACTGAGGATACACG
GAAGCTTAGAAAATCTCTAATTAA
AATCCTGACATAATGGAAGTGCTC
ACAAACCAGCC<3'
(SEQ ID NO:2)

5' >GCCAACCTGTCCCTCTCTGAC
ATCTTGGTGTGTGTCATGTGCATC
CCTTTACGGTCATCTACACTCTG
ATGGACCACTGGGTATTTGGGAAC
ACTATGTGTAAACTCACTTCCTAC
GTGCAAAGTGTCTCAGTTTCTGTG
TCCATATTCTCCCTTGTGTTGATT
GCTATTGAACGATATCAGCTGATT
GTGAACCCCCG<3'
(SEQ ID NO:3)

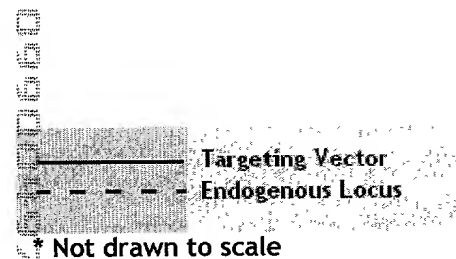


FIGURE 2B